



Roland Digital Piano **HP 147** **Owner's Manual**

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Before using this unit, carefully read the sections entitled: "IMPORTANT SAFETY INSTRUCTIONS" (p. 2), "USING THE UNIT SAFELY" (p. 3) and "IMPORTANT NOTES" (p. 4). These sections provide important information concerning the proper operation of the unit. Additionally, in order to feel assured that you have gained a good grasp of every feature provided by your new unit, Owner's manual should be read in its entirety. The manual should be saved and kept on hand as a convenient reference.

 CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	 ATTENTION: RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.	



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS.

IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS

WARNING - When using electric products, basic precautions should always be followed, including the following:

1. Read all the instructions before using the product.
2. Do not use this product near water — for example, near a bathtub, washbowl, kitchen sink, in a wet basement, or near a swimming pool, or the like.
3. This product should be used only with a cart or stand that is recommended by the manufacturer.
4. This product, either alone or in combination with an amplifier and headphones or speakers, may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at a high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an audiologist.
5. The product should be located so that its location or position does not interfere with its proper ventilation.
6. The product should be located away from heat sources such as radiators, heat registers, or other products that produce heat.
7. The product should be connected to a power supply only of the type described in the operating instructions or as marked on the product.
8. The power-supply cord of the product should be unplugged from the outlet when left unused for a long period of time.
9. Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
10. The product should be serviced by qualified service personnel when:
 - A. The power-supply cord or the plug has been damaged; or
 - B. Objects have fallen, or liquid has been spilled into the product; or
 - C. The product has been exposed to rain; or
 - D. The product does not appear to operate normally or exhibits a marked change in performance; or
 - E. The product has been dropped, or the enclosure damaged.
11. Do not attempt to service the product beyond that described in the user-maintenance instructions. All other servicing should be referred to qualified service personnel.

For the USA

This product may be equipped with a polarized line plug (one blade wider than the other) . This is a safety feature. If you are unable to insert the plug into the outlet, contact an electrician to replace your obsolete outlet. Do not defeat the safety purpose of the plug.

For Canada

For Polarized Line Plug

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.
ATTENTION: POUR ÉVITER LES CHOCs ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU' AU FOND.

For the U.K.

IMPORTANT: THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE.

BLUE: NEUTRAL
 BROWN: LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
 The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.
 The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.
 Under no circumstances must either of the above wires be connected to the earth terminal of a three pin plug.




USING THE UNIT SAFELY

INSTRUCTIONS FOR THE PREVENTION OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

About ⚠ WARNING and ⚠ CAUTION Notices









⚠ WARNING	Used for instructions intended to alert the user to the risk of death or severe injury should the unit be used improperly.
⚠ CAUTION	Used for instructions intended to alert the user to the risk of injury or material damage should the unit be used improperly. * Material damage refers to damage or other adverse effects caused with respect to the home and all its furnishings, as well to domestic animals or pets.

About the Symbols









	The ⚠ symbol alerts the user to important instructions or warnings. The specific meaning of the symbol is determined by the design contained within the triangle. In the case of the symbol at left, it is used for general cautions, warnings, or alerts to danger.
	The ⚡ symbol alerts the user to items that must never be carried out (are forbidden). The specific thing that must not be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the unit must never be disassembled.
	The ● symbol alerts the user to things that must be carried out. The specific thing that must be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the power-cord plug must be unplugged from the outlet.

ALWAYS OBSERVE THE FOLLOWING

⚠ WARNING

- Before using this unit, make sure to read the instructions below, and the Owner's Manual. 
- Do not open or perform any internal modifications on the unit. 
- Make sure you always have the unit placed so it is level and sure to remain stable. Never place it on stands that could wobble, or on inclined surfaces. 
- Avoid damaging the power cord. Do not bend it excessively, step on it, place heavy objects on it, etc. A damaged cord can easily become a shock or fire hazard. Never use a power cord after it has been damaged. 
- In households with small children, an adult should provide supervision until the child is capable of following all the rules essential for the safe operation of the unit. 
- Protect the unit from strong impact. (Do not drop it!) 
- Do not force the unit's power-supply cord to share an outlet with an unreasonable number of other devices. Be especially careful when using extension cords—the total power used by all devices you have connected to the extension cord's outlet must never exceed the power rating (watts/amperes) for the extension cord. Excessive loads can cause the insulation on the cord to heat up and eventually melt through. 
- Before using the unit in a foreign country, consult with your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page. 

⚠ CAUTION

- Always grasp only the plug on the power-supply cord when plugging into, or unplugging from, an outlet or this unit. 
- Try to prevent cords and cables from becoming entangled. Also, all cords and cables should be placed so they are out of the reach of children. 
- Never climb on top of, nor place heavy objects on the unit. 
- Never handle the power cord or its plugs with wet hands when plugging into, or unplugging from, an outlet or this unit. 
- If you need to move the instrument, take note of the precautions listed below. At least two persons are required to safely lift and move the unit. It should be handled carefully, all the while keeping it level. Make sure to have a firm grip, to protect yourself from injury and the instrument from damage. 
 - Check to make sure the knob bolts securing the unit to the stand have not become loose. Fasten them again securely whenever you notice any loosening.
 - Disconnect the power cord.
 - Disconnect all cords coming from external devices.
 - Raise the adjusters on the stand (p. 6).
 - Close the lid.
 - Remove the music stand.
- Before cleaning the unit, turn off the power and unplug the power cord from the outlet (p. 6). 
- Whenever you suspect the possibility of lightning in your area, pull the plug on the power cord out of the outlet. 
- Be careful when opening/closing the lid so you do not get your fingers pinched (p. 6). Adult supervision is recommended whenever small children use the unit. 

IMPORTANT NOTES

In addition to the items listed under "IMPORTANT SAFETY INSTRUCTIONS" and "USING THE UNIT SAFELY" on pages 2 and 3, please read and observe the following:

Power Supply

- Do not use this unit on the same power circuit with any device that will generate line noise (such as an electric motor or variable lighting system).
- Before connecting this unit to other devices, turn off the power to all units. This will help prevent malfunctions and/or damage to speakers or other devices.

Placement

- Using the unit near power amplifiers (or other equipment containing large power transformers) may induce hum. To alleviate the problem, change the orientation of this unit; or move it farther away from the source of interference.
- This device may interfere with radio and television reception. Do not use this device in the vicinity of such receivers.
- Do not expose the unit to direct sunlight, place it near devices that radiate heat, leave it inside an enclosed vehicle, or otherwise subject it to temperature extremes. Excessive heat can deform or discolor the unit.
- To avoid possible breakdown, do not use the unit in a wet area, such as an area exposed to rain or other moisture.

Maintenance

- For everyday cleaning wipe the unit with a soft, dry cloth or one that has been slightly dampened with water. To remove stubborn dirt, use a cloth impregnated with a mild, non-abrasive detergent. Afterwards, be sure to wipe the unit thoroughly with a soft, dry cloth.

- Never use benzine, thinners, alcohol or solvents of any kind, to avoid the possibility of discoloration and/or deformation.

Additional Precautions

- Unfortunately, it may be impossible to restore the contents of data that was stored on a floppy disk once it has been lost. Roland Corporation assumes no liability concerning such loss of data.
- Use a reasonable amount of care when using the unit's buttons, sliders, or other controls; and when using its jacks and connectors. Rough handling can lead to malfunctions.
- When connecting / disconnecting all cables, grasp the connector itself—never pull on the cable. This way you will avoid causing shorts, or damage to the cable's internal elements.
- A small amount of heat will radiate from the unit during normal operation.
- To avoid disturbing your neighbors, try to keep the unit's volume at reasonable levels. You may prefer to use headphones, so you do not need to be concerned about those around you (especially when it is late at night).
- When you need to transport the unit, pack it in shock-absorbent material. Transporting the unit without doing so can cause it to become scratched or damaged, and could lead to malfunction.



This product complies with the requirements of European Directives EMC 89/336/EEC and LVD 73/23/EEC.

For EU Countries

FEDERAL COMMUNICATIONS COMMISSION RADIO FREQUENCY INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Unauthorized changes or modification to this system can void the users authority to operate this equipment. This equipment requires shielded interface cables in order to meet FCC class B Limit.

For the USA

NOTICE

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

AVIS

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

For Canada

Starting Out

Main Features

■ Authentic Piano Performances

With the Roland HP 147, you can enjoy realistic piano performances with high-quality concert grand piano tone and authentic hammer action keyboard.

■ Four Tones for Use in a Wide Variety of Musical Genres

The HP 147 features not only piano tones, but four different internal tones that you can use in a variety of musical genres.

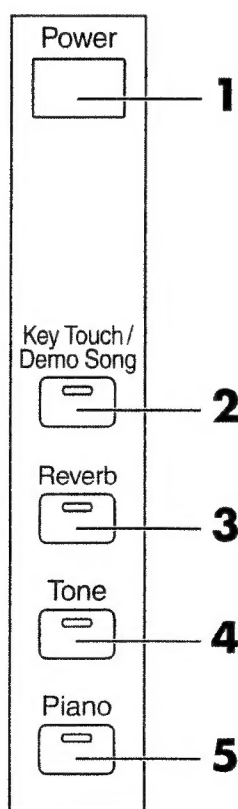
■ Includes High-Quality Reverb

The HP 147's reverb function can add various types of reverberation (sound that is reflected off the walls of a room) to the instrument sounds.

■ Compact Design Needs Little Space

The HP 147 provides authentic hammer action and high-quality tones, all in a compact body.

Button Descriptions



1. [Power] Switch

Turns the HP 147's power on and off (p. 7).

2. [Key Touch/Demo Song] Button

This button is held down while other designated keys are pressed to start the Demo Songs playing, and can be used in making various settings on the HP 147 (p. 8, 13-16, 18, 19).



The keys that are used in combination with this button appear as the "Functions Assigned to the Keyboard" (p. 21).

3. [Reverb] Button

Pressing this button adds reverberation to the sound (p. 13).

4. [Tone] Button

Pressing this button gives you tones the non-piano tones when you play the keyboard (p. 10).

5. [Piano] Button

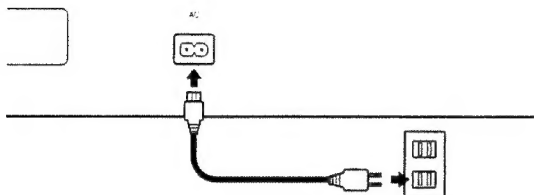
Pressing this button gives you tones the piano tones when you play the keyboard (p. 10).

Before You Play

Connecting the Power Cord

* To prevent malfunction and/or damage to speakers or other devices, always turn down the volume, and turn off the power on all devices before making any connections.

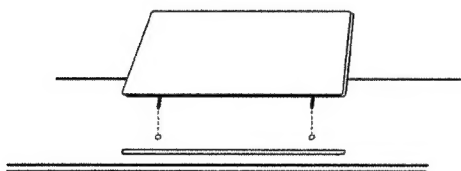
1. Connect the supplied power cord to the AC Inlet socket on the rear panel of the unit.



2. Plug the other end of the power cord into a wall outlet.

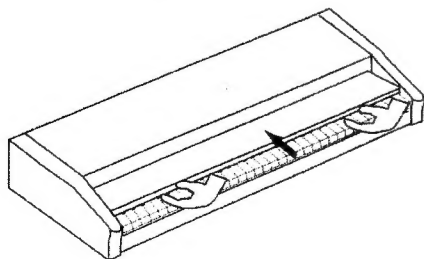
Setting the Music Stand

Insert the music stand into the two holes as shown in the figure below.



Opening and Closing the Lid

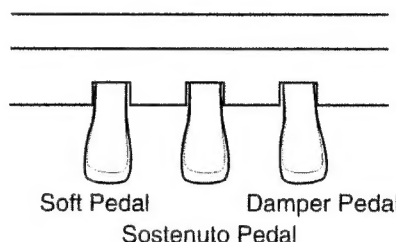
1. When opening the HP 147's lid, grasp the lid with both hands and gently lift it upwards, then slide it towards the back of the piano.
2. When closing the lid, slowly pull the lid forward, then gently lower it into place.



Do not insert your hands into the inside of the piano through the space between the lid and the keyboard.

- * Take care not to allow fingers to be caught or pinched when opening and closing the lid.
- * Make sure an adult is on hand to provide assistance when young children are playing the HP 147.
- * For safety, transport the keyboard only with the lid in the closed position.

About the Pedals



Soft Pedal

This pedal softens the sound.

Playing with the soft pedal depressed produces a sound that is not as strong as when otherwise played with the equivalent strength.

Sostenuto Pedal

With the sostenuto pedal, only the sound played at the moment the pedal is pressed is sustained.

Damper Pedal

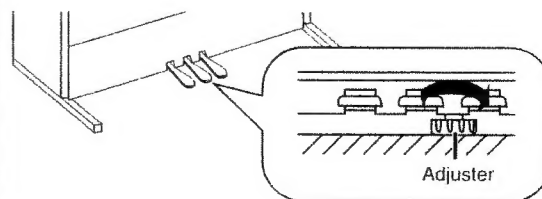
Use this pedal when you want the sound to linger.

While the damper pedal is depressed, the sound from the keyboard continues to linger/remain for an extended period, even when you remove your fingers from the keys.

About the Adjuster

After you have moved this piano, or when you feel it is unstabled, lower the adjuster at the bottom of the pedal board as follows:

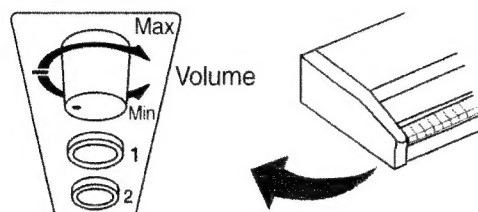
- Lower the adjuster so that it is firmly in contact with the floor. If there is a gap between the adjuster and the floor, the unit may malfunction when the pedal is pressed. In particular when the instrument is placed on a carpeted floor, you must lower the adjuster so that it presses strongly against the floor.



About the Volume knob

The **VOLUME** knob adjusts the overall volume.

The **VOLUME** knob is located at the far left of the piano's lower panel.



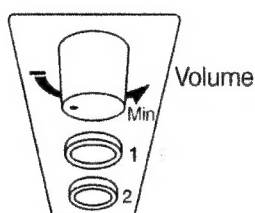
- * The **VOLUME** knob "clicks" to make the knob easy to stop when center position is reached.
- * To protect your ears when using headphones for extended periods, take care not to listen at excessively high volume.

Turning the Power On and Off

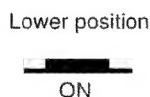
- * Once the connections have been completed, turn on power to your various devices in the order specified. By turning on devices in the wrong order, you risk causing malfunction and/or damage to speakers and other devices.

■ Turning On the Power

1. Before switching the power on, turn the volume all the way down.



2. Press the **[Power]** switch.

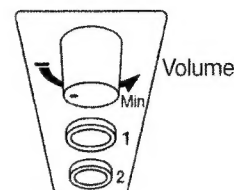


Several seconds after the power is turned on, the keyboard will produce sound when played. Adjust the volume appropriately.

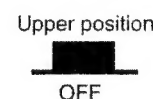
- * This unit is equipped with a protection circuit. A brief interval (a few seconds) after power up is required before the unit will operate normally.

■ Turning Off the Power

1. Before switching the power off, turn the volume all the way down.



2. Press the **[Power]** switch.

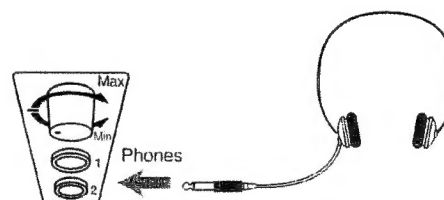


The power is turned off.

Connecting Headphones

The HP 147 features two headphone jacks. This allows two people to listen through headphones simultaneously, making it very useful for lessons and when performing piano pieces for four hands. Additionally, this allows you to play without having to worry about bothering others around you, even at night.

1. Connect the headphones to either of the headphone jacks on the underside of the HP 147, on the left.
- Sound will no longer be heard from the HP 147's speakers.
2. Adjust the headphones volume with the HP 147's Volume knob.



■ Precautions to Take When Using Headphones

- * To avoid damaging or severing the headphone cord, be sure to handle the headphones by holding the phones themselves, and grasping the plug and not the cord when pulling the headphone plug.
- * Connecting the headphones when the volume of connected equipment is turned up may result in damage to the headphones. Connect the headphones only after turning the volume down completely.
- * Listening at excessively high volume levels will not only damage the headphones, but may also cause hearing loss. Listen at appropriate levels.

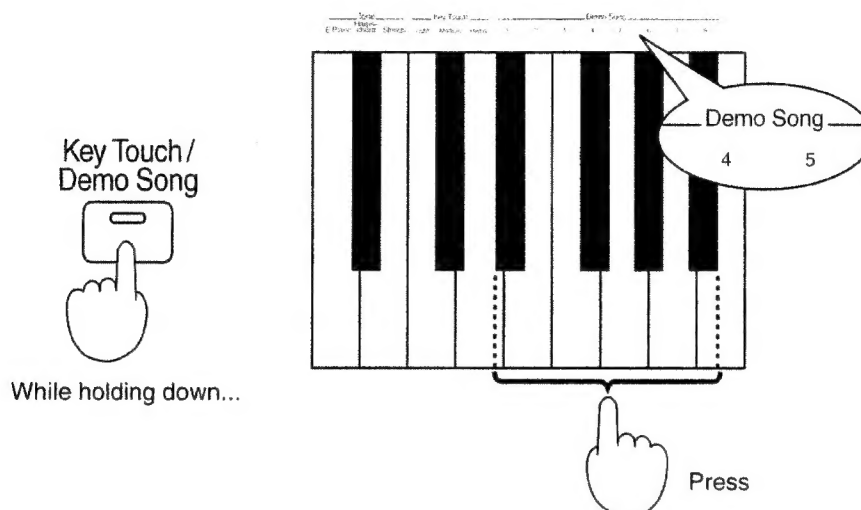
Listening to the Demo Songs

Playing Back and Stopping the Demo Song

Playing Back the Demo Song

While holding down the [Key Touch/Demo Song] button, press any of the keys within the area where “Demo Song” is printed.

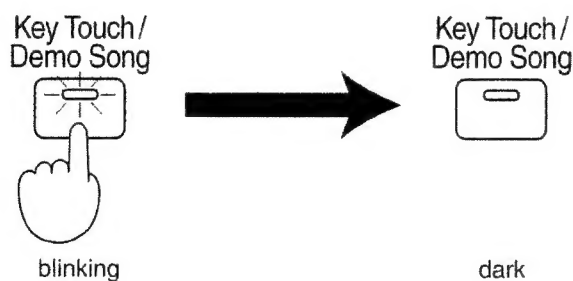
The button lamp blinks, and the song corresponding to the number pressed starts to play.



Stopping the Demo Song

Press the [Key Touch/Demo Song] button.

The button lamp stops blinking and goes off, and playback of the Demo Song stops.



When one song is finished, the next song automatically begins to play. Subsequent Demo Songs are automatically played one after another until you stop them playing.

List of Demo Songs

No.	Title	Composer	Copyright
1	Intro	John Maul	©1991, 1999 Roland UK
2	Bagatelle "Frü Elise" WoO.59	L.v. Beethoven	©1994 Roland Corporation
3	A Maiden's Prayer	T. Badarzewska	©1996 Roland Corporation
4	No.14 "La Styrienne" from 25 Etudes	F. Burgmüller	©1992 Roland Corporation
5	from Cantata BWV.147	J.S. Bach / Naoki Nishi	©1993 Roland Corporation
6	Etude No.3 in E Major "Chanson de l'adieu"	F. Chopin	©1992 Roland Corporation
7	Fly Free	John Maul	©1992 Roland Corporation
8	Mood / Ending	John Maul	©1991, 1999 Roland UK

NOTE

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NOTE

No data for the music that is played will be output from MIDI OUT.

Profiles of Composers

John Maul

John Maul is a musician, composer and arranger having graduated from the Royal Academy of Music in London. John's work encompasses studio recordings and live performances including work with top UK Jazz artists.

His writing credits include commercial music for BBC radio and television, as well as scoring jazz and classical works.

Having been a product specialist for Roland U.K., John is now actively involved in music software composing/programming for both Roland Japan and various music publishers. Quite recently his "Musical Picture Book," a volume of original piano music encompassing all standards of musical ability, which included the piano and orchestral accompaniment data in SMF format, was published and printed.

Naoki Nishi

Born in 1958 in Hiroshima, Japan. Began working professionally at the age of 21. Has so far released 9 albums on which he is featured. He has also taken part in numerous other albums. His broad range of activities have included appearances at a number of jazz festivals in Japan and other parts of the world. In addition to his duties as an instructor at the Tokyo Conservatoire Shoubi, he has provided his services as a demonstrator for Roland since 1990. He is considered to be one of Japan's finest jazz pianist.

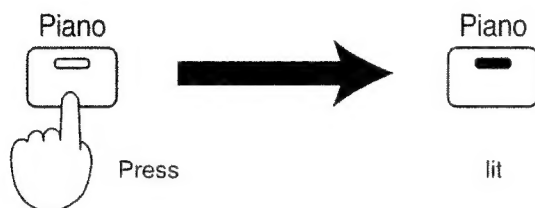
Playing the Keyboard

Performing with Piano Sound

The HP 147 lets you enjoy performing with high-quality concert grand piano tone.

When you press the [Piano] button, the button indicator is lit.

You can play using the piano tone.

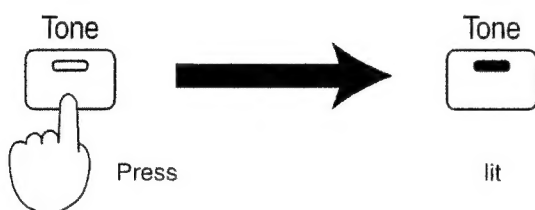


The keyboard is set to this piano tone when the power is turned on.

Performing with Various Instrument Sounds

The HP 147 also includes three other tones: E.Piano (Electric Piano), Harpsichord, and Strings. You can assign any one of these three tones to the [Tone] button.

Try Pressing the [Tone] Button



When the power is turned on, E.Piano (Electric Piano) is assigned to the [Tone] button.

When you press the [Tone] button, the button indicator is lit.

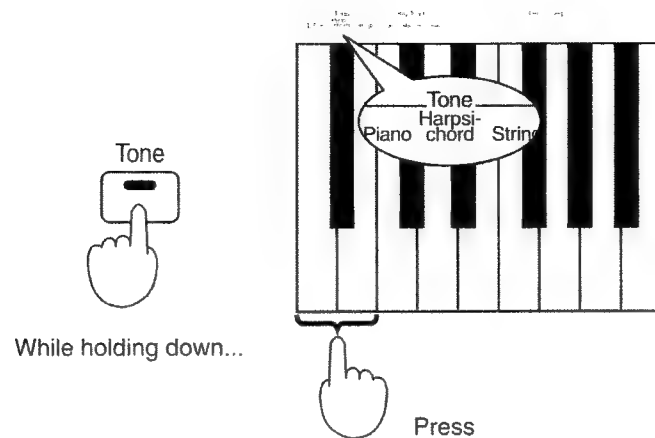
The electric piano tone is produced when you play the keyboard.

Try Changing the Tone Assigned to the [Tone] Button

Any of the three tones may be assigned to the [Tone] button. By assigning the tone you prefer to the [Tone] button beforehand, you can perform with the instrument sound you want just by pressing the [Tone] button.

- 1. While holding down the [Tone] button, press the key with the name of the tone you want to use from among the keys indicated as "Tone" keys.**

The [Tone] button indicator blinks, indicating the tone selected with the pressed key.



2. After releasing the button, play the keyboard.

The button indicator stops blinking and stays on, indicating that the tone selected in Step 1 has been assigned to the [Tone] button.

MEMO

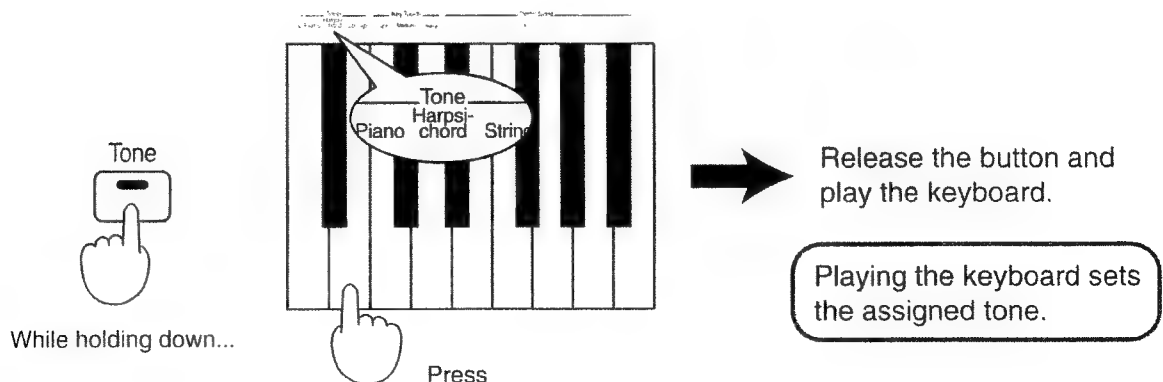
When assigning tones to the [Tone] button, the tone is set by first selecting the tone in Step 1 (indicator blinks), then playing the keyboard in Step 2 (indicator is lit). You can also set the tone by pressing the blinking [Tone] button instead of playing the keyboard. If you don't want to set the tone, then press the [Piano] button.

Layering Two Instrument Sounds— Dual Play

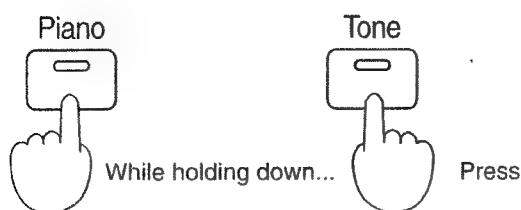
Playing with two different tones on the keyboard simultaneously is called “Dual Play.”

Layering the Piano tones and Strings tones

1. First, assign the Strings tone to the [Tone] button.



- 2.** While holding down the [Piano] button, press the [Tone] button.

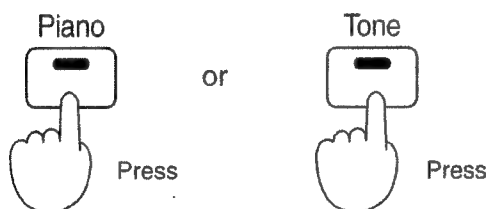


Both button indicators are lit. When you play the keyboard, both the Piano and Strings tones are layered.

Reverting to a Single Instrument Tone

Press either the [Piano] button or the [Tone] button.

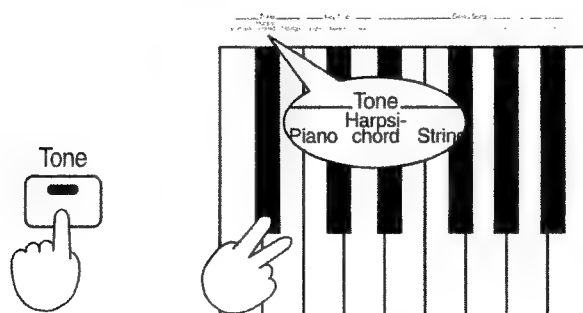
Only the button indicator for the button that was pressed stays on, and only that instrument sound is produced.



Layering the Harpsichord and Strings Tones

You can perform with two tones assigned to the [Tone] button layered together (other than the piano tone).

While holding down the [Tone] button, simultaneously press the Harpsichord and Strings keys from among the keys marked as “Tone” keys.



While holding down... Press simultaneously

NOTE

Tones composed of two separate layered tones (“Dual” tones) cannot be assigned to the [Tone] button. When the [Tone] button is pressed, the single previously assigned tone is restored.

Adding Reverberation to the Sound — Reverb Effect

The HP 147 allows you to add reverberation to what you play on the keyboard. With the reverb effect, you can get a pleasant reverberation, making it sound as if you were performing in a concert hall or similar space.

1. Press the [Reverb] button; the button indicator lights.

Reverberation is added to the sound.



2. Press the [Reverb] button once more; the button indicator goes off, and the reverb effect is no longer added to the sound.



Changing the Reverb Type

The HP 147 features eight reverb types, 1-8, allowing you to select the preferred reverb sound.

The higher the reverb type number, the deeper the effect is.

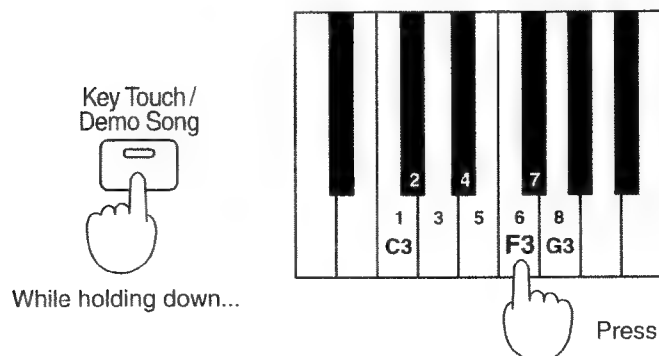
The reverb is reset to type 4 when the power is switched on.

To change the reverb type, hold down the [Key Touch/Demo Song] button and press one of the keys C3-G3 (corresponding to reverb types 1-8).

<Ex.> Selecting Reverb Type 6

While holding down the [Key Touch/Demo Song] button, press the F3 key (the fourth white key below Middle C).

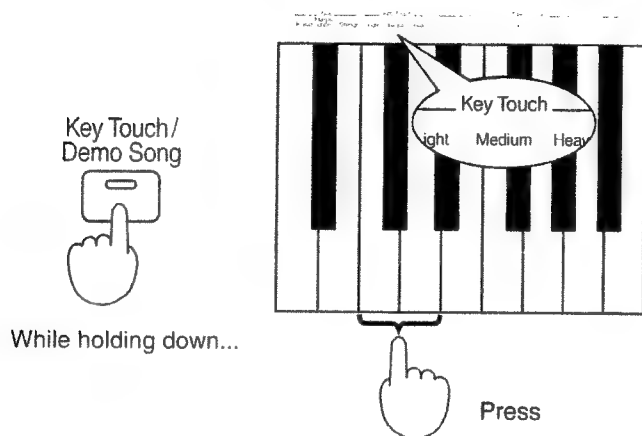
Refer to "Functions Assigned to the Keyboard" (p. 21).



Changing Keyboard Touch Sensitivity

You can select from three touch sensitivity levels: Light, Medium, and Heavy.
When the Keyboard is turned on, the response is set to "Medium."

While holding down the [Key Touch/Demo Song] button, press the key indicating the preferred touch sensitivity.



Types	Meaning
Medium	Normal setting, providing the most natural touch, closest to that of an acoustic piano.
Heavy	With this setting, to play fortissimo the keys must be played much more strongly than normally, as if the keys had become heavier. Adds even more emotion when you play with lots of dynamics. This is useful for players who use a strong touch and for drill work.
Light	With this setting, fortissimo can be produced using much less force than normal, thus making the keys seem lighter. This setting makes it easy to play, even for children.

It Even Does This! — Convenient Functions

Transposing without Changing Your Fingering—Key Transpose

You can play in a different key—without changing the keys you are playing. This function is called “Key Transpose.” When you are accompanying a singer, you can use Key Transpose to match the vocal pitch of the singer, allowing you to transpose easily while using the same printed music (keyboard fingering).

Key transpositions remain in effect until the keyboard’s power is turned off.

** The transposition setting is effective only on sounds performed on the HP 147’s keyboard. This setting is not effective on tones from external MIDI messages played on the HP 147.*

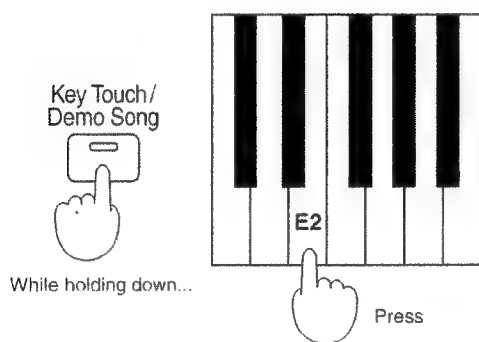
<Ex.> Using the C Major Keys to Play a Song in E Major

1. While holding down the [Key Touch/Demo Song] button, press the tonic (root) of the key to which you want to transpose.

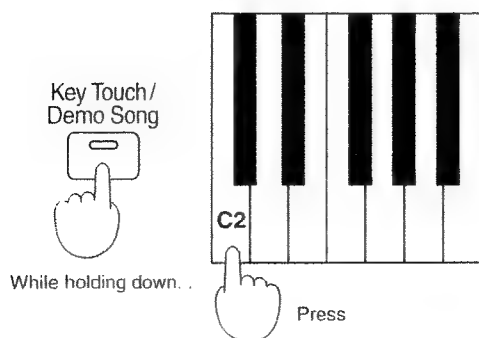
Use the C2–B2 notes to select the tonic.

Refer to “Functions Assigned to the Keyboard” (p. 21).

Here, press the E2 key.



2. To return to the previous condition, while holding down the [Key Touch/Demo Song] button, press the C2 key.



Adjusting the Reference Pitch — Master Tuning

In situations such as when playing in ensemble with other instruments, you can adjust the HP 147’s reference pitch to that of another instrument.

Middle A is generally used as the standard reference pitch for tuning instruments. When performing in ensemble with other instruments, the ensemble will not sound good if the instruments are not in tune with each other. This tuning of all the instruments to a reference pitch is called “Master Tuning.”

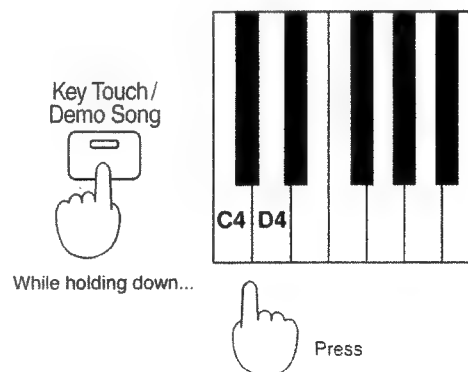
MEMO

The reference pitch is reset to 440 Hz when the power is switched on, with 440 Hz played by Middle A (A4).

■ Lowering/ raising the Reference Pitch

While holding down the [Key Touch/Demo Song] button, press the “C4” note to lower the reference pitch, or the “D4” note to raise it.

Refer to “Functions Assigned to the Keyboard” (p. 21).



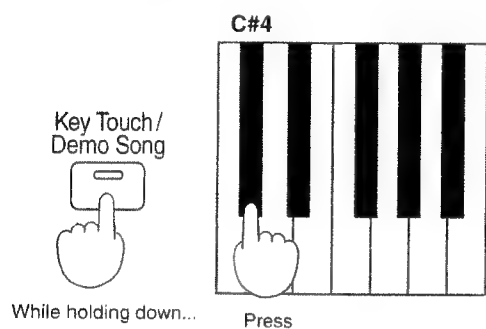
Each time you press the “C4” key, the pitch will fall by 0.1 Hz. If you continue holding the key, the pitch will continue falling.

Each time you press the “D4” key, the pitch will rise by 0.1 Hz. If you continue holding the key, the pitch will continue rising.

■ Setting the Reference Pitch to 440 Hz

While holding down the [Key Touch/Demo Song] button, press the “C#4” key on the keyboard.

Refer to “Functions Assigned to the Keyboard” (p. 21).

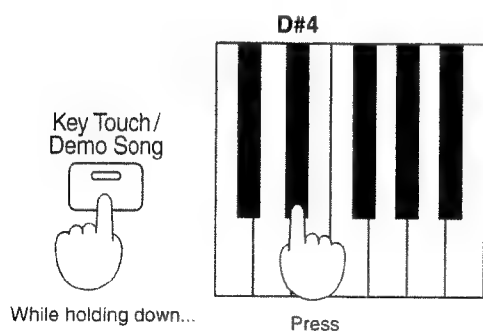


The reference pitch will be set to 440 Hz. This is the most commonly used setting. The A4 (Middle A) key will sound at 440 Hz.

■ Setting the Reference Pitch to 442 Hz

While holding down the [Key Touch/Demo Song] button, press the “D#4” key on the keyboard.

Refer to “Functions Assigned to the Keyboard” (p. 21).



The standard pitch will be set to 442 Hz. This setting is often used for concert pianos. The A4 (Middle A) key will sound at 442 Hz.

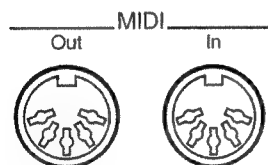
Connecting External Devices — Step up with MIDI

Please read this section if you are planning to use the HP 147's MIDI functions, connecting it to another MIDI device. When connected to one of Roland's MT Series devices or other such instrument, you can play the many MT Series internal tones with the HP 147's keyboard, as well as record the performances.

Using MIDI

■ About MIDI

MIDI, short for "Musical Instrument Digital Interface," was developed as a standard for the exchange of performance data between electronic instruments and computers. The HP 147 is equipped with MIDI connectors to allow such exchange of performance data with external equipment and devices. Connecting the keyboard to other devices with these jacks provides you with an even greater variety of ways to use your keyboard.



MIDI Connectors on the rear panel

MIDI Out Connector

Performance information such as the output from the keyboard or pedal is sent out here to the MIDI connectors of external equipments.

MIDI In Connector

MIDI messages sent from connected external equipment are input here, then HP 147 can output sounds, exchange tones, and perform other operations.

■ Sending and Receiving Program Change Messages

When you press the HP 147's [Piano] button or [Tone] button to change tones, a Program Change Message with the corresponding Program Number is sent via the MIDI Out connector. Furthermore, a Program Change Message received via the MIDI In connector changes the tone to the one with the corresponding Program Number.

Switching Tones with Program Change Messages

Here, with the HP 147 connected to an external MIDI sequencer, when recording and playing back songs, if after pressing the sequencer's Record button to start you press the HP 147's [Tone] button and then begin to play, a Program Change message for that tone is recorded by the sequencer. When you then play back using the sequencer, regardless of the HP 147's mode, the tone is changed in accordance with the Program Change messages recorded by the sequencer, allowing you to play back with the tones used during recording. In addition, Program Change messages from tone changes made while the recording is in progress are also recorded, meaning you can also record songs with tone changes made during the performance.

Program Numbers for each of the HP 147's tones are shown below.

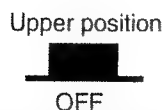
Program Number	Tone
1	Piano
4	Harpsichord
6	Electric Piano
9	Strings
11	Piano + Harpsichord
13	Piano + Electric Piano
16	Piano + Strings
24	Harpsichord + Electric Piano
27	Harpsichord + Strings
34	Electric Piano + Strings

* Any Program Number other than those listed above that are received by the HP 147 are ignored.

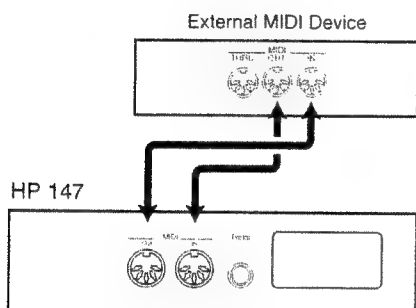
* 11-34 are in Dual Play mode (p. 11)

Making Connections

1. Turn off the HP 147.



2. Connect the MIDI connectors on the external MIDI device and HP 147 with MIDI cables.



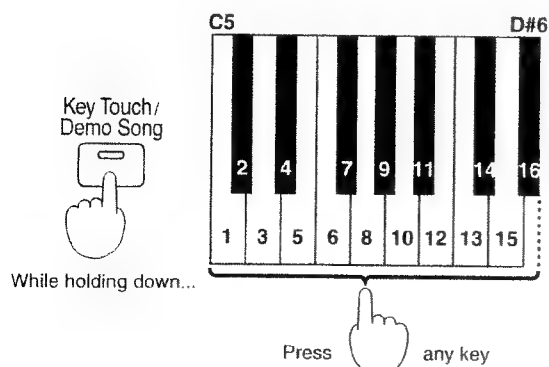
3. If necessary, set the MIDI channel, Local on/off, etc.

Set the MIDI Channel

MIDI features sixteen MIDI channels, numbered 1-16. Even after the MIDI cables are connected, the connected devices must be set to use the same MIDI channels, otherwise no sound will be produced. When the HP 147 is turned on, Channel "1" is selected.

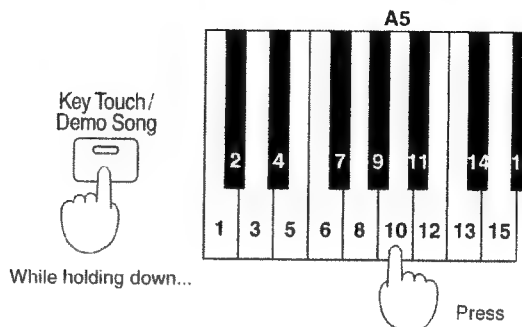
To make the setting, while holding down the [Key Touch/Demo Song] button, press any key from C5 to D#6.

The sequence of keys C5-D#6 corresponds to MIDI Channels 1-16. Refer to "Functions Assigned to the Keyboard" (p. 21).



<Ex.> Set the MIDI Channel to 10

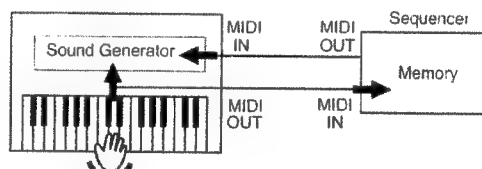
While holding down the [Key Touch/Demo Song] button, press the key of A5.



Here the HP 147's MIDI channel for sending/receiving is both set to 10.

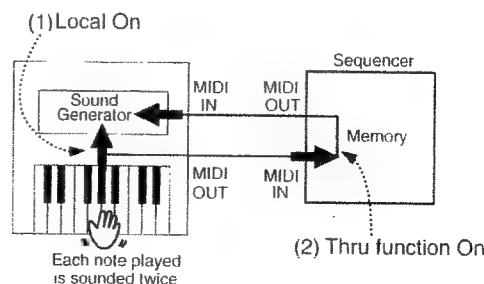
Local On/Off

With the keyboard connected to a MIDI sequencer, keyboard performances can be recorded to the sequencer; the sequencer can also be used to play back performances.



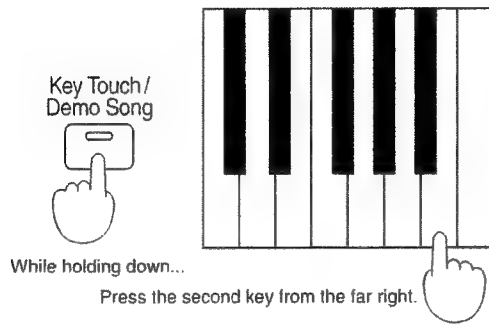
With the sequencer's "Thru" function on, the same notes may be sounded twice.

This is because the keyboard's performance data arrives at the sound generator via two different routes, (1) and (2). This can cause the sound to become strange, and also puts strain on the instrument's polyphonic capabilities. To prevent this from happening, route (1) must be separated, by means of what is called "Local Off."

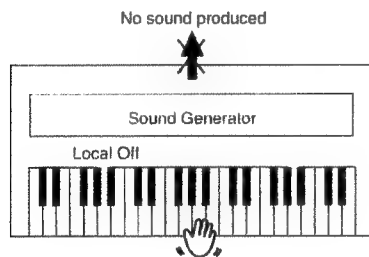


■ Switching Local On/Off

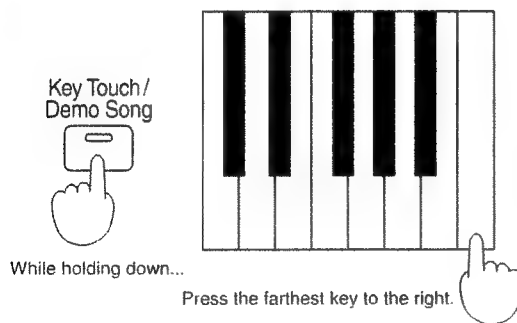
1. Local On is set when the power is switched on.
2. While holding down the [Key Touch/Demo Song] button, press the second key from the far right.



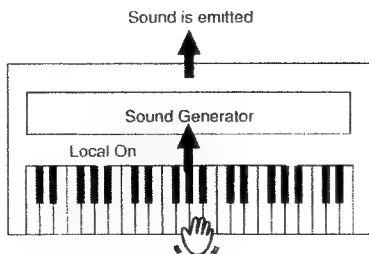
This sets Local Off.



3. Once more, while holding down the [Key Touch/Demo Song] button, press the farthest key to the right.



This sets Local On.



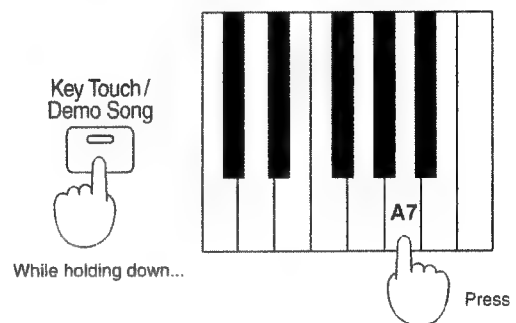
Omni On/Off

When set to Omni On, the HP 147 plays regardless of the MIDI channel on which the MIDI messages are received.

■ Switching Omni On/Off

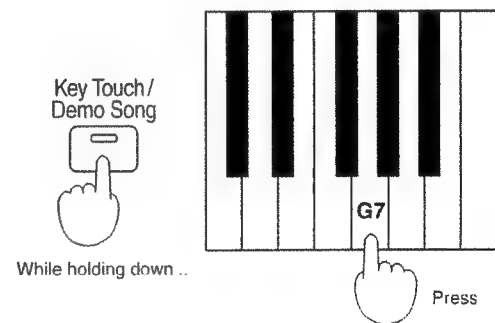
1. Omni Off is automatically set when the power is switched on.
2. While holding down the [Key Touch/Demo Song] button, press the key of A7.

Refer to "Functions Assigned to the Keyboard" (p. 21).



Here, this sets Omni On.

3. Once more, while holding down the [Key Touch/Demo Song] button, press the G7 key.



This sets Omni Off.

Appendices

Troubleshooting

If you are encountering any problems with the equipment, please read the section below before determining that there has been any malfunction.

The piano cannot be switched on

- Is the power cord properly connected? (p. 6)

No sound is produced

- Is the Volume knob set to the minimum position? (p. 7)
- Are headphones connected? (p. 7)
When headphones are connected, the keyboard's speaker stops playing.
- Is Local On/Off set to "Off?" (p. 18)

Two sounds are produced when the keyboard is played

- Is the keyboard in Dual Play mode? (p. 11)

The pitch of the keyboard sounds incorrect

- Is the Master Tuning setting correct? (p. 15)
- Is the Key Transpose setting correct? (p. 15)

The pedals are not functioning, or function intermittently

- Are the pedals connected properly?
Make sure the pedal cord is securely connected to the pedal jack on the back of the unit.

■ When using external sound devices

No sound of external devices is produced

- Is the power to all equipment turned on?
- Is the volume setting in the external sound generator lowered?
- Are the MIDI connections between HP 147 and the external MIDI device correct? (p. 18)
- Is the MIDI channel setting correct? (p. 18)
- Is the Omni On/Off setting correct? (p. 19)

■ When using sequencers

No sound of HP 147 is produced

- Are the MIDI connections between HP 147 and the MIDI sequencer correct? (p. 18)
- Is the MIDI channel setting correct? (p. 18)
- Is the Omni On/Off setting correct? (p. 19)

Strange sounds (or two sounds) are produced when the HP 147 is played

- With the sequencer's "Thru" function on, the same notes may be sounded twice. Set the HP 147 to Local off. (p. 18)

Index

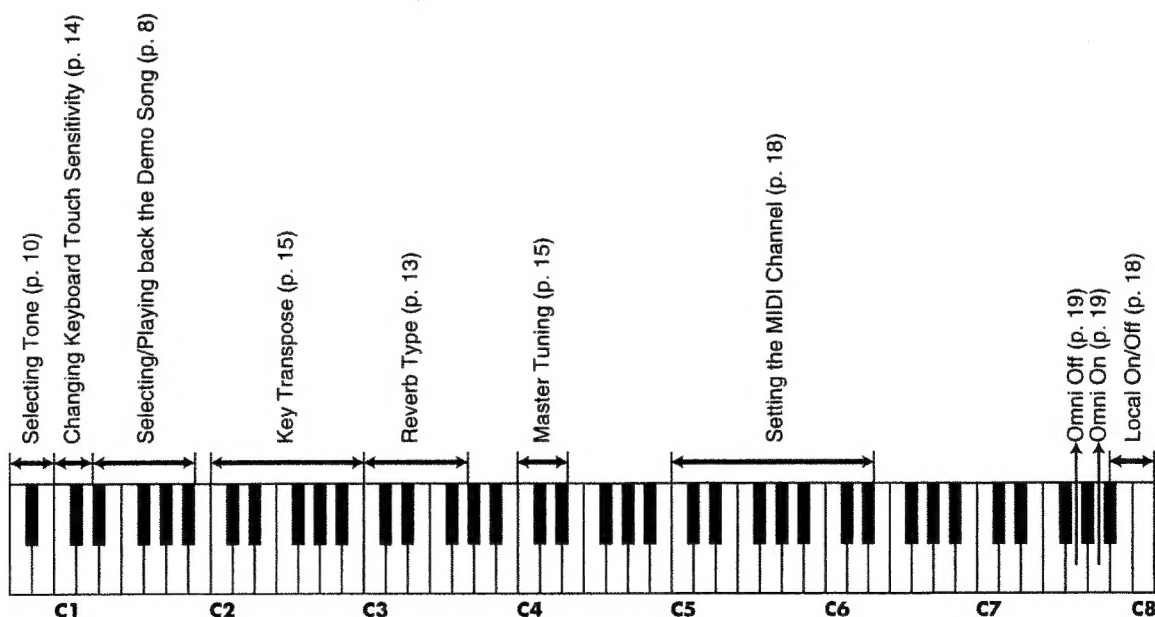
[Key Touch/Demo Song] Button.....	8,13,14,15,18	MIDI	17
[Piano] Button	10	MIDI channel	18
[Power] Switch.....	7	Music Stand.....	6
[Reverb] Button	13	Omni On/Off.....	19
[Tone] Button	10	Pedal.....	6
440Hz	16	Piano.....	10
442Hz	16	Power Cord	6
		Program Change.....	17
Damper Pedal	6	Reference Pitch	15
Demo Song	8	Reverb Effect	13
Dual Play	11	Type of Reverb	13
Electric Piano	10	Soft Pedal.....	6
Harpsichord	10	Sostenuto Pedal	6
Headphones	7	Strings	10
Key Transpose	15	Turning the Power On and Off	7
Keyboard Touch Sensitivity	14	Volume Knob	7
Local On/Off	18		
Master Tuning	15		

Specifications

- **Keyboard**
88 keys (hammer action mechanism)
- **Maximum Polyphony**
64 voices
- **Tones**
Piano, Electric Piano, Harpsichord, Strings
- **Effects**
Reverb (8 types)
- **Touch Control**
Light, Medium or Heavy
- **Key Transposition**
-6→+5 (semitone steps)
- **Master Tuning**
415.3 Hz to 466.2 Hz (0.1 Hz steps)
- **Connectors**
Headphones Jack (stereo) x2
MIDI Connectors (In, Out)
Pedal Connector
- **Pedals**
Damper, Sostenuto, Soft
- **Speakers**
12 cm x 2
- **Rated Power Output**
15 W x 2
- **Cabinet Finish**
Simulated Black Walnut
- **Power Supply**
AC 117 V, AC 230 V, AC 240 V
- **Power Consumption**
49 W (AC 117 V), 33 W (AC 230 V), 33 W (AC 240 V)
- **Dimensions (including the Piano Stand)**
1,398 (W) x 422 (D) x 820 (H) mm
55-1/16 (W) x 16-5/8 (D) x 32-5/16 (H) inches
- **Weight (including the Piano Stand)**
43.2 kg
95 lbs 4 oz
- **Accessories**
Owner's Manual, Power Cord, Music Stand

* In the interest of product improvement, the specifications and/or appearance of this unit are subject to change without prior notice.

Functions Assigned to the Keyboard



MIDI Implementation Chart

Function...		Transmitted	Recognized	Remarks
Basic Channel	Default Changed	1 1 -16	1 1 -16	
Mode	Default Messages Altered	Mode 3 x *****	Mode 3 OMNI ON/OFF	
Note Number :	True Voice	15 - 113 *****	0 -127 15 - 113	
Velocity	Note On Note Off	O x 8n v = 64	O x	
After Touch	Key's Channel's	x x	x x	
Pitch Bend		x	x	
Control Change	6, 38 7 11 64 66 67 91 100, 101	O x x O O O O O	O O *1 O *1 O *1 O *1 O *1 O O O	Data entry Volume Expression Hold 1 Sostenuto Soft Reverb RPN LSB, MSB
Prog Change	: True Number	O (0 -33) *****	O (0 -127) 0 - 33	
System Exclusive		O	O	
System Common	: Song Position : Song Select : Tune Request	x x x	x x x	
System Real Time	: Clock : Commands	x x	x x	
Aux Messages	: All Sound Off : Reset All Controllers : Local On/Off : All Notes Off : Active Sensing : System Reset	x x x x O x	x O O O (123 -127) O x	
Notes		*1 These message can affect only MIDI notes.		

Mode 1 : OMNI ON, POLY

Mode 2 : OMNI ON, MONO

O : Yes

Mode 3 : OMNI OFF, POLY

Mode 4 : OMNI OFF, MONO

X : No

* A separate publication titled "MIDI Implementation" is also available. It provides complete details concerning the way MIDI has been implemented on this unit. If you should require this publication (such as when you intend to carry out byte-level programming), please contact the nearest Roland Service Center or authorized Roland distributor.

Information

When you need repair service, call your nearest Roland Service Center or authorized Roland distributor in your country as shown below.

AFRICA

EGYPT

Al Fanny Trading Office
P.O. Box 2904,
El Horrich Heliopolis, Cairo,
EGYPT
TEL: (02) 4185531

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Maison FO - YAM Marcel
25 Rue Jules Merman ZL
Chaudron - BP79 97491
Ste Clotilde REUNION
TEL: 28 29 16

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That Other Music Shop
(PTY) Ltd.
11 Melle Street (Cnr Melle and
Juta Street)
Braamfontein 2001
Republic of SOUTH AFRICA
TEL: (011) 403 4105

Paul Bothner (PTY) Ltd.
17 Werdmuller Centre Claremont
7700
Republic of SOUTH AFRICA

P.O. Box 23032
Claremont, Cape Town
SOUTH AFRICA 7735
TEL: (021) 64 4030

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CHINA

Beijing Xinghai Musical
Instruments Co., Ltd.
6 Huangmuchiang Chao Yang
District, Beijing, CHINA
TEL: (010) 6774 7491

HONG KONG

Tom Lee Music Co., Ltd.
Service Division
22-32 Pun Shan Street, Tsuen
Wan, New Territories,
HONG KONG
TEL: 2415 0911

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Rivera Digitec (India) Pvt. Ltd.
409, Nirman Kundra Mahalaxmi
Flats Compound Off. Dr. Edwin
Moses Road, Mumbai-400011,
INDIA
TEL: (022) 498 3079

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11, Cideng Timur No. 151-150
Jakarta Pusat
INDONESIA
TEL: (021) 6324170

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Cosmos Corporation
Service Station
261 2nd Floor Nak-Won Arcade
Jong-Ro ku, Seoul, KOREA
TEL: (02) 742 8844

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Bentley Music SDN BHD
140 & 142, Jalan Bukit Bintang
55100 Kuala Lumpur, MALAYSIA
TEL: (03) 2443333

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G.A. Yupangco & Co. Inc.
339 Gil I, Puyat Avenue
Makati, Metro Manila 1200,
PHILIPPINES
TEL: (02) 899 9801

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Swee Lee Company
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TEL: 748-1669

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Ho Chi Minh City
VIETNAM
TEL: (08) 844-0068

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38 Campbell Avenue
Dee Why West, NSW 2099
AUSTRALIA
TEL: (02) 9982 8266

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Roland Corporation (NZ) Ltd.
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Auckland 3, NEW ZEALAND
TEL: (09) 3098 715

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Instrumentos Musicales S.A.
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Office Number 206A
Buenos Aires
ARGENTINA, CP1005
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TEL: (011) 3743 9377

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Providencia Santiago, CHILE
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Juan Pablo 2 No. 4010
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C2 Local 20 Caracas
VENEZUELA
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A-6063 RUM, AUSTRIA
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(Westerlo) BELGIUM
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Nordhavnsvej 7, Postbox 880
DK-2100 Copenhagen
DENMARK
TEL: (039)16 6200

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Parc de l'Esplanade F 77 462 St.
Thibault Lagny Cedex FRANCE
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Fin-00201 Helsinki, FINLAND
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Handelsgesellschaft mbH.
Oststrasse 96, 22844 Norderstedt,
GERMANY
TEL: (040) 52 60090

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Music Sound Light
155, New National Road
26422 Patras, GREECE
TEL: 061-435400

HUNGARY

Intermusica Ltd.
Warehouse Area 'DEPO' PL83
H-2046 Torokbalint, HUNGARY
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Roland Ireland
Audio House, Belmont Court,
Donnybrook, Dublin 4,
Republic of IRELAND
TEL: (01) 2603501

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Roland Italy S. p. A.
Viale delle Industrie, 8
20020 Arese Milano, ITALY
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Roland Scandinavia Avd.
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Lilleakerveien 2 Postboks 95
Lilleaker N-0216 Oslo
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TEL: 273 0074

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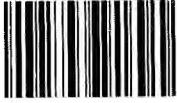
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